WAGAN Corp. Limited Warranty Registration Form

All WAGAN Corporation products are warranted to the original purchaser of this product. Warranty Duration: This product is warranted to the original purchaser for a period of one (1) Year from the original purchase date, to be free of defects in material and workmanship. WAGAN Corporation disclaims any liability for consequential damages. In no event will WAGAN Corporation be responsible for any amount of damages beyond the amount paid for the product at retail. In the even of a defective item, please ship the item, prepaid, with a complete explanation of the problem, your name, address and daytime phone number. WAGAN Corporation will, at its option, replaces or repair the defective part. This warranty is void if the product has been damaged by accident, in shipment, unreasonable use, misuse, neglect, improper service, commercial use, repairs by unauthorized personnel or other causes not arising out of defects in materials or workmanship. This warranty is effective only if the product is purchased and operated in the USA and does not extend to any units which have been used in violation of written instructions furnished.
Warranty Disclaimers: This warranty is in-lieu of all warranties expressed or implied and no representative or person is authorized to assume any other liability in connection with the sale of our products. There shall be no claims for defects or failure of performance or product failure under any theory of tort, contract or commercial law including, but not limited to negligence, gross negligence, strict liability, breach of warranty and breach of contract.
Warranty Performance: During the above one (1) Year warranty period, a product with a defect will be replaced with a comparable model when the product is returned to WAGAN Corporation with an original store receipt. The replacement product will be in warranty for the balance of the one (1) Year warranty period.

- Please activate my limited warranty for WAGAN Corp.
- Enclosed copy of original sales receipt.

Name			
Mail Address			
City			
State, Zip Code			
Item Purchased	2238 Multi-purpose Power Backup Jumper Starter with Flashlight		
Stores Name			
Date of Purchase			
Signature		Date	

All WAGAN Corporation Products must be registered within (30) days of purchased to activate this warranty. Mail the complete registration form, along with a copy of the original receipt to:

Attn: Customer Service
WAGAN Corporation
3589 Yale Way
Fremont, CA 94538

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Item no. 2238

Deluxe Power Backup with Flashlight™

User's Manual

Deluxe
Power Backup with Flashlight by Wagan Tech

USER'S MANUAL — Please read before using this equipment.

Thank you for purchasing the Multi-purpose Power Backup Jumper Starter with Flashlight by Wagan Tech. With normal care and proper treatment it will provide years of reliable service. Please read all operating instructions carefully before use.

CONTENTS:

1. Deluxe Power Backup with Flashlight
2. AC Power Adapter
3. DC Power Adapter

FEATURES:

- Recharge and start an auto battery in minutes. Powerful Ni-Cad battery can be recharged over 500 times
- Use as a power source for audio/video accessories, cell phones, camping accessories and more.
- Super –bright flashlight
- Shoulder strap for hands-free operation

IMPORTANT NOTES:

● You should initially charge the unit for 24 hours before first use. See "RECAHRGING" section for details.
● Before attempting to start vehicle, this unit must be removed from the vehicle's 12V socket. See "CHRAGING A DEAD BATTERY" section for details.
● The unit is designed to recharge 12V batteries with a low voltage between 10.4 and 10.5 volts. If vehicle battery is severely drained, call a service center or tow truck.
● CAR ALARMS: If you have a car alarm, put it into "valet mode" before attempting to use. Many popular car alarm models cut off the power to the vehicle's electrical system. It will not work while this type of alarm is engaged.
● The unit is water-resistant, but not waterproof. It may be damaged if submerged in water, and will be damaged if submerged in salt water.

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● For optimum performance, store in temperatures between 32°F-110°F (0°C-43°C). Temperatures below 45°F (7°C) and above 85°F (30°C) will require at least an additional 10 minutes of recharging before starting engine.
● During operation, the unit may feel warm. Discontinue use if it becomes too hot.
● Do not attempt to reverse polarity.
● 25A fuses are used in a protection system which regulates the discharge and recharge of this unit.
● Always recycle your Ni-Cad battery products.

WARNING: KEEP OUT OF REACH OF CHILDREN.
READ ALL INSTRUCTIONS BEFORE USE.

DANGER-SHOCK HAZARD.
Keep battery charger and adapter away from water and other liquids. Never operate if cord is damaged or product is not working properly. Unplug when not in use.

WARRANTY:
The products are designed with quality in mind. This product is warranted against defects in material and workmanship for one year from date of purchase. This warranty does not apply to defects or damage caused by misuse, alteration, or normal wear and tear, and is limited only to replacement of this tool.

USING THE FLASHLIGHT:

Switch the Master Switch to the OUTPUT position. Push the Flashlight Switch into turn on, and in again to turn off. Be sure to turn the Master Switch to the OFF position after using flashlight.

CHARGING AN DEAD BATTERY

Note: Before attempting to start vehicle, this unit must be removed from the vehicle's 12V socket.

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- Turn off all lights and all other accessories (radio, etc) in the vehicle.
- Tip: keep one small vehicle light or dial turned on to aid in determining if the battery is charging.
- Make sure the vehicle's 12V Socket is clean and free of debris.
- Put the end of the Male-to-Male 12V Car Power Card with no LED light into the unit's 12V socket.
- Put the lighted end of the Male-to-Male Car Power Cord into the vehicle's 12V socket.
- Push the Master Switch to the OUTPUT position.
- The Indicator Light on the 12V connector will illuminate, and the light or dial left on in the vehicle should brighten. If the light or dial does not brighten, turn the ignition key ONLY as far as the accessory position (see vehicle owner's manual.) In some vehicles, this is necessary for the 12V socket to operate.
- If the light or dial still does not brighten, turn off the light or dial, and allow this unit to remain on the 12V socket for at least 35 minutes. Remove it from the 12V and attempt to start the vehicle.
- If the vehicle does not start, DO NOT attempt to start the engine more that twice. Call a service center or tow truck.

USING AS A DC 12V POWER SOURCE

The unit's 12V DC Power Socket mimics the 12V socket of a vehicle. Any accessory you would normally plug into your vehicle's 12V socket (cell phone, camcorder, flashlight, radio, etc.) can be powered from the unit's 12V socket, using built-in battery as the power source.
This unit's 12V DC socket is center pin positive (+). Most 12V DC accessories come with this configuration, but not all. Before connecting any accessory to the 12V socket, check the accessory owner's manual for the polarity of the accessory.
If the accessory is center pin positive, simply plug it into the 12V socket push the master switch to the OUTPUT position and run normally.

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For the DC accessories that ate NOT center pin positive, you must use a DC to DC adapter (not included.)

USING AS A DC 3-9V POWER SOURCE

With a switch able power output (3, 6 and 9 volts) and five universal Adapter Plugs, this unit can be use to power most DC accessories such as portable CD players, electronic games, cassette recorders, etc.

WARNINGS:

- Prior to plugging an accessory into this unit, always be sure to switch the accessory OFF.
- Always be sure to check the polarity and voltage of the accessory before using. Reversed polarity will result in permanent damage to the accessory. (See Polarity.)
- Do not exceed rated fuse capacity.
- To avoid potential damage, do not leave this or any accessory operating unattended in a vehicle.

OPERATION :

Determine the maximum output voltage for the accessory being used. Refer to manufacturer's instruction manual for voltage rating. The total number of batteries (AAA, AA, C, or D cell) used by the accessory determines its voltage output.

- 1 battery =1.5V output
- 3battery =4.5V output
- 5battery=7.5Voutput
- 2 battery= 3V output
- 4 battery=6V output
- 6battery=9V output

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NOTE: Some accessories use one 9V battery, which equals 9V output.

Set the Variable Voltage Switch to the proper voltage for the accessory. Select the Proper adapter plug for the accessory. Make sure the adapter plug engage snugly into the accessory input socket for the proper power connection. Each adapter plug is marked for positive (+) and negative (-) polarity.
IMPORTANT: REVERSED POLARITY WILL RESULT IN PERMANENT DAMAGE TO THE ACCESSORY VERIFY POLARITY AND VOLTAGE OF THE ACCESSORY, AND PLUG ADAPTER INTO DC POWER CONVERTER CABLE ACCORDINGLY.
INSERT OUTPUT JACK END OF DC POWER CONVERTER CABLE INTO DC OUTLET OF THE UNIT. PUSH THE MASTER SWITCH TO THE OUTPUT POSITION AND RUN NORMALLY.

SAMPLE RUN TIMES FOR ACCESSORIES

The following are approximate times that accessories can be expected to run and function normally while powered by the unit:
- Cell phones -4 hours of talk, 5 days of stand-by mode.
- Camcorder -2.5 hours (0.6A load), 3.6 hours (0.4A load)
- Spotlight – 1 hour (25-watt bulb), 2 hours (12.5-watt bulb)
- Camping lantern (dual –fluorescent type 4 watts) -3.5hours
- CD player (3watts) -5 hours.

CHECKING THE BUILT-IN BATTERY LEVEL

Push the Maser Switch to the Battery Reader position. The Charge Level indicator Lights below the switch will indicate whether the built-in battery's charge is a "full'', "half" or "empty". Recharging is recommended when "half" charge is indicated, and is necessary immediately when "empty" is indicated.

RECHARGING

RECHARGING IN VEHICLE
Simply leave the unit plugged into the vehicle's 12V socket for 30 to 60 minutes, while the engine is running, fully charge. (After unplug, use the Battery Reader Charge Level Indicator Lights to determine if full charge has been achieved.)

Do not leave this unit plugged into the 12V socket when the vehicle is not running. It will nor recharge, and may drain power from the car battery. NOTE: It should be charged at least once every 12 months regardless of usage. Most Ni-Cad batteries average over 500 charges in their life cycle.

RECHARGING FROM AC POWER SOURCE

An AC Power Adapter is included for recharging from a standard power outlet. Simply leave this unit plugged into a power outlet for 3 to 5 hours to fully charge.(After Unplug use the Battery Reader Charge Level Indicator Lights to determine if full change ha been achieve.)

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